

IN THE CLAIMS:

Claims 1-82 (Cancelled).

83. (Currently Amended) A communication device adapted for peer-to-peer wireless communication between the communication device and another communication device, comprising:

means for setting up direct communications in-between said communication devices in order to directly exchange messages between said communication devices, wherein said messages contain MAC (Medium Access Control) identifiers for identifying said communication devices respectively;

means for sending a request message to the other communication device in order to receive a transmit power information;

means for receiving a report message from the other communication device created in response to the request message and including an indication of a transmit power information used to transmit the report message; and

means for dynamically adapting the optimal transmit power for communicating with the other communication device in accordance with the indication of the transmit power information so that the transmit power of the communication device is similar to the optimal transmit power.

84. (Previously Presented) A communication device adapted for peer-to-peer wireless communication between the communication device and another communication device, comprising:

means for sending a request message to the other communication device in order to receive a transmit power information, wherein the request message includes identification information uniquely identifying the other communication device;

means for receiving a report message from the other communication device created in response to the request message and including identification information uniquely identifying the other communication device; and

means for controlling the transmit power of the communication device on the basis of the transmit power information so that the communication device can dynamically adapt an optimal transmit power for each of a plurality of uniquely identified other communication devices.

85. (Currently Amended) A communication device adapted for peer-to-peer wireless communication between the communication device and another communication device, comprising:

means for setting up direct communications in-between said communication devices in order to directly exchange messages between said communication devices, wherein said messages contain MAC (Medium Access Control) identifiers for identifying said communication devices respectively;

means for receiving a wireless network link information from an access point including an indication of a maximum transmit power of which the communication device is capable of transmitting in a communication channel;

means for sending a request message to the other communication device using a lower transmit power level than the maximum transmit power;

means for receiving a report message from the other communication device including an indication of a transmit power used to transmit the report message; and

means for adapting the transmit power of the communication device on the basis of the indication of the transmit power.

86. (Currently Amended) A communication method for peer-to-peer wireless communication between a communication device and another communication device, comprising:

setting up direct communications in-between said communication devices in order to directly exchange messages between said communication devices, wherein said messages contain MAC (Medium Access Control) identifiers for identifying said communication devices respectively;

sending a request message from the communication device to the other communication device in order to receive a transmit power information;

receiving at the communication device a report message from the other communication device created in response to the request message and including an indication of a transmit power information used to transmit the report message; and

dynamically adapting the optimal transmit power of the communication device for communicating with the other communication device in accordance with the indication of the transmit power information so that the transmit power of the communication device is similar to the optimal transmit power.

87. (Previously Presented) A communication method for peer-to-peer wireless communication between a communication device and another communication device, comprising:

sending a request message from the communication device to the other communication device in order to receive a transmit power information, wherein the request message includes identification information uniquely identifying the other communication device;

receiving a report message at the communication device from the other communication device created in response to the request message and including identification information uniquely identifying the other communication device; and

controlling the transmit power of the communication device on the basis of the transmit power information so that the communication device can dynamically adapt an optimal transmit power for each of a plurality of uniquely identified other communication devices.

88. (Currently Amended) A communication method for peer-to-peer wireless communication between a communication device and another communication device, comprising:

setting up direct communications in-between said communication devices in order to directly exchange messages between said communication devices, wherein said messages contain MAC (Medium Access Control) identifiers for identifying said communication devices respectively;

receiving at the communication device a wireless network link information from an access point including an indication of a maximum transmit power of which the communication device is capable of transmitting in a communication channel;

sending a request message from the communication device to the other communication device using a lower transmit power level than the maximum transmit power;

receiving at the communication device a report message from the other communication device including an indication of a transmit power used to transmit the report message; and

adapting the transmit power of the communication device on the basis of the indication of the transmit power.